In order for this project to work you need to buy the following

**Hardware**

1. Thermal Imaging Sensor by RHWorkShop -------- $195.00

http://www.rhworkshop.com/pages/product-ir-blue-dm

1. Arduino Uno ------- $59.95

http://www.amazon.com/gp/product/B004G2F936/ref=oh\_details\_o03\_s00\_i00?ie=UTF8&psc=1

1. UltraSonic Sensor x2 ------- $6.00

http://www.amazon.com/HC-SR04-Ultrasonic-Range-Finder-Distance/dp/B00GB5RM6I/ref=sr\_1\_3?s=electronics&ie=UTF8&qid=1387572684&sr=1-3&keywords=ultrasonic+rangefinder

1. SeeedStudio RangeFinder x2 ------- $17.00

<http://www.amazon.com/Ultrasonic-range-measurement-module-Arduino/dp/B006VEST5C/ref=sr_1_fkmr1_1?ie=UTF8&qid=1387572904&sr=8-1-fkmr1&keywords=seeedstudio+ultrasonic+range+finder>

1. Male to Female Wire ------ $5.70

http://www.amazon.com/Phantom-YoYo-dupont-cable-female/dp/B00A6SOGC4/ref=sr\_1\_3?ie=UTF8&qid=1387573067&sr=8-3&keywords=female+and+male+wire

1. Temperature Sensor ------ $2.00

http://www.amazon.com/SparkFun-TMP36-Temperature-Sensor/dp/B007R9UM78/ref=sr\_1\_8?ie=UTF8&qid=1387576640&sr=8-8&keywords=temperature+sensor+arduino

1. Vest ------ $20.00
2. Baseball Cap ------ $10.00
3. Android Phone Version 2.3 and Above ----- Depends on Phone
4. 9V Battery ----- $3.50
5. AAA Battery x4 ----- $3.00

**Software**

1. Basic4Android programming software $60.00 for 2 months – used to modify the open source FIRSensor App